ABB BALDOR RELIANCE

Customer information packet

VEBM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3524M, OPSB
Class - None
Division - Not Applicable

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11/28/2026 12:38:26 AM

Specifications

Enclosure	OPSB
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.300 A @ 460.0 V
	4.600 A @ 230.0 V
	4.640 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35Q109
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYQ109
Eff. date	02-26-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.37 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L											
CAT.NO.	VEBM3154T										
SPEC.	35Q109L955G1										
HP	1.5										
VOLTS	230/460										
AMP	4.6/2.3										
RPM	1770										
FRAME	145TC	**HZ**	60				**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F				
NEMA-NOM-EFF	86.5	**PF**	72								
RATING	40C AMB-CONT										
CC	010A										
DE	6205	**ODE**	6203								
ENCL	OPSB	**SN**									
	SFA 4.88/2.44										

AC Induction Motor Performance Data
Record # 95388
Typical performance - not guaranteed values

Winding: 35WGL955-R002	**Type:** 3524M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1.5
Volts			230/460
Full Load Amps			4.6/2.3
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	72
Rating - Duty			40C AMB-CONT
S.F. Amps			5/2.5

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	18.8 LB-FT
Pull-up Torque	9.6 LB-FT
Locked-rotor Torque	12.6 LB-FT
Starting Current	19.7 A
No-load Current	1.51 A
Line-line Res. @ 25ºC	11.8 Ω
Temp. Rise @ Rated Load	48°C
Temp. Rise @ S.F. Load	57°C
Locked-rotor Power Factor	58.4
Rotor inertia	0.173 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	49	63	72	78	81	76
Efficiency	75.1	83.5	86	86.5	85.8	84.8	86.1
Speed	1792	1785	1777	1769	1760	1750	1764
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06	2.5

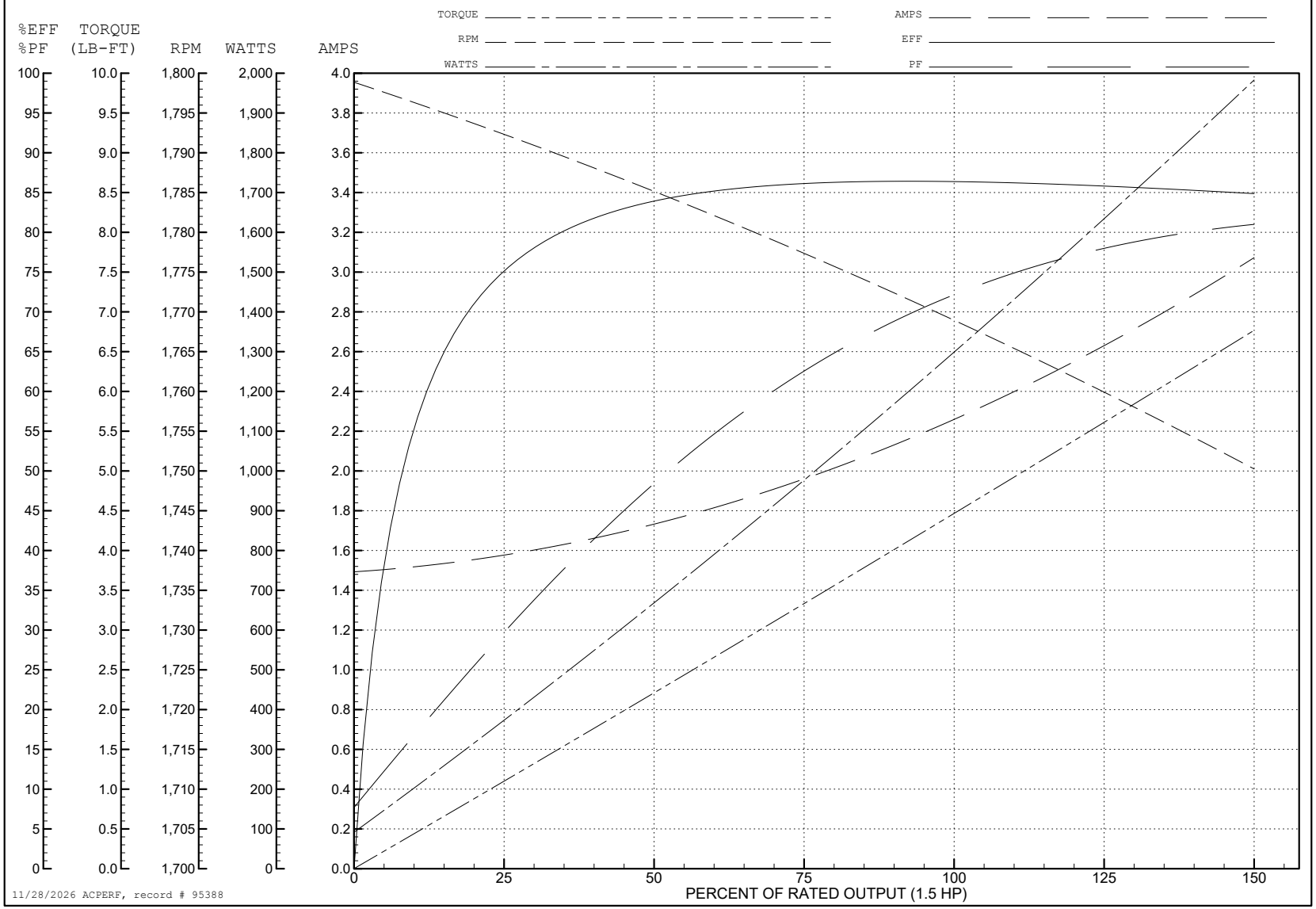
ABB Motors and Mechanical Inc.

WINDING # 35WGL955

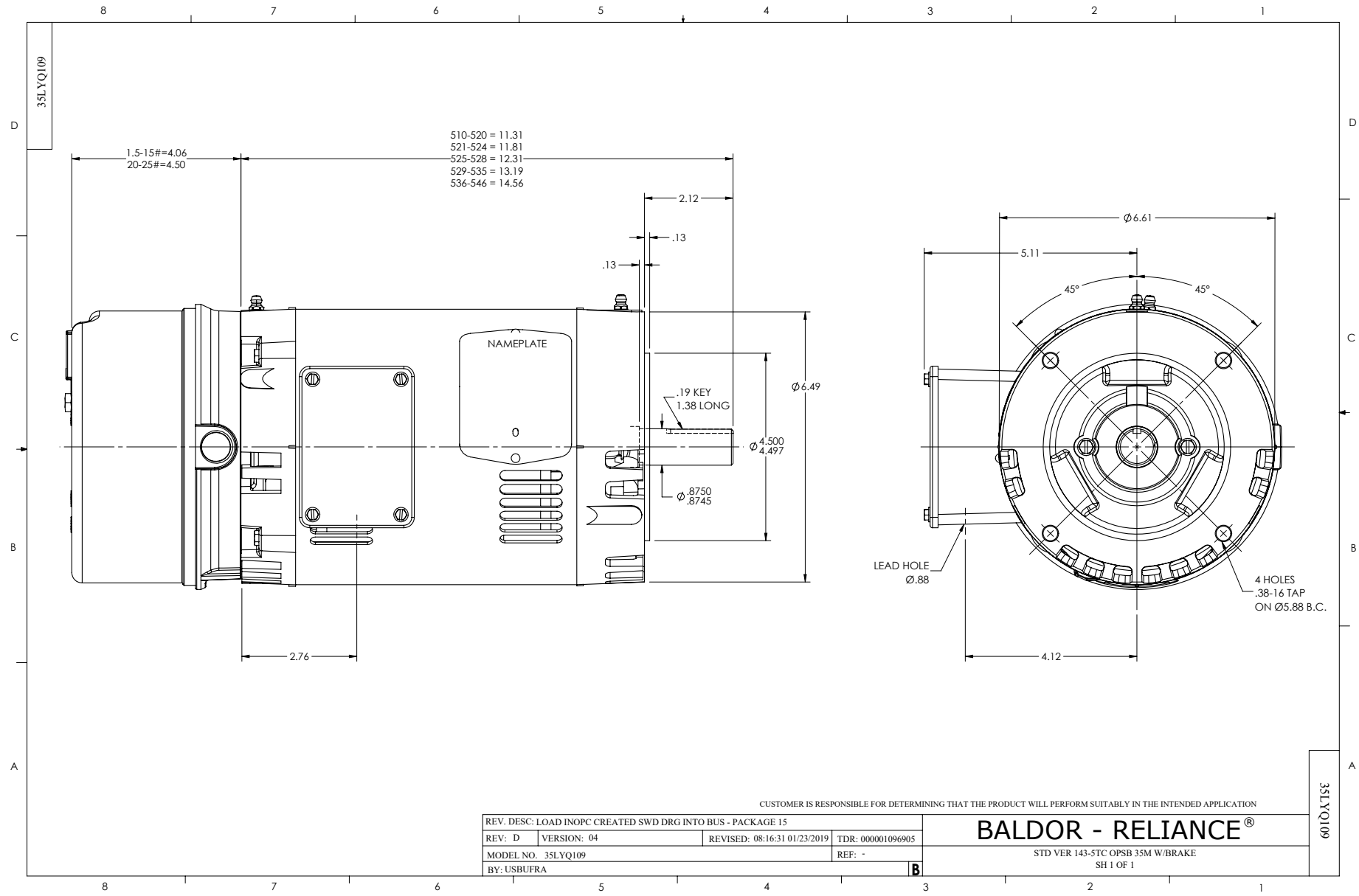
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

Typical performance - not guaranteed values.

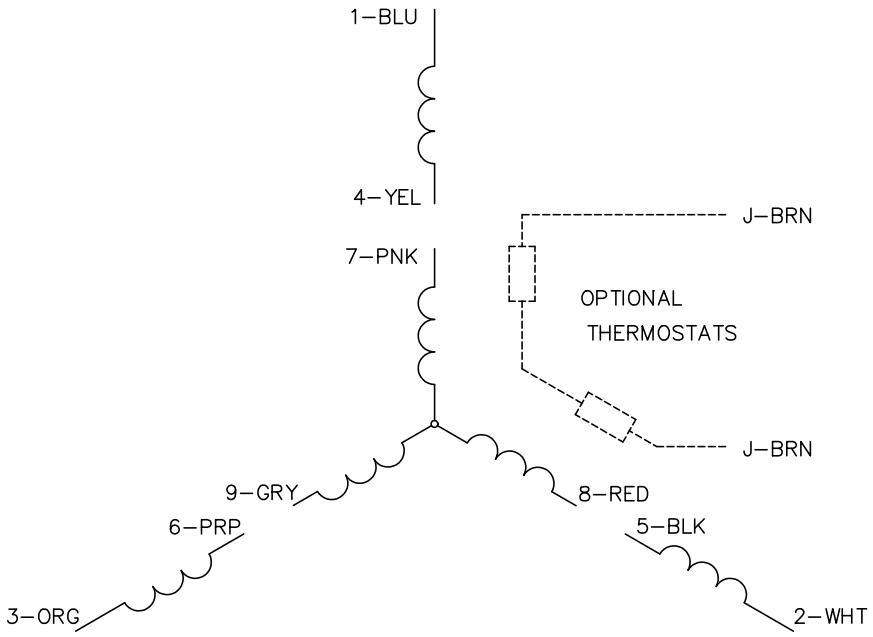
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7

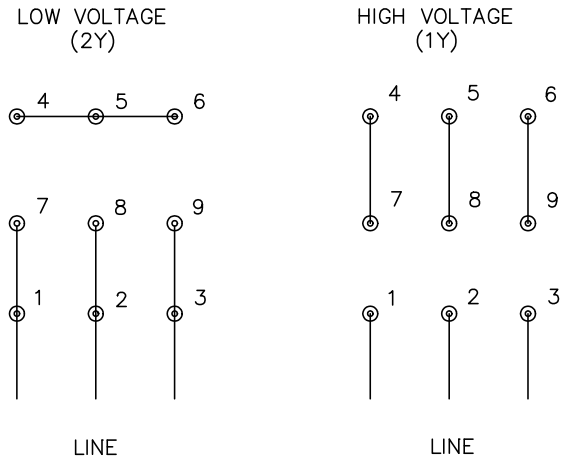


11/28/2026 ACPERF, record # 95388


35LYQ109
1.5-15#=4.06
20-25#=4.50
510-520 = 11.31
521-524 = 11.81
525-528 = 12.31
529-535 = 13.19
536-546 = 14.56
2.12
.13
.13
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.49
Ø4.500
4.497
Ø.8750
.8745
2.76
Ø6.61
5.11
45°
45°
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.12
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 15
REV: D
VERSION: 04
REVISED: 08:16:31 01/23/2019
TDR: 000001096905
MODEL NO. 35LYQ109
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VER 143-5TC OPSB 35M W/BRAKE
SH 1 OF 1
35LYQ109

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS